#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Joseph Phillip Bigus et al.

Art Unit: 2762

Serial No.: 09/100,595

Examiner: Unknown

Filed:

June 19, 1998 Atty. Docket No.: IBM/04B

For: PROGRAM PRO

PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN

KNOWLEDGE

# **TRANSMITTAL**

Assistant Commissioner for Patents Washington, DC 20231

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Form PTO-1449 (11 pages)

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Scott A. Stinebruner Reg. No. 38,323

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**KNOWLEDGE** 

## INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, DC 20231

Sir:

In accordance with Applicants' duty of disclosure under the provisions of 37 C.F.R. § 1.56, the references listed on the enclosed Form PTO-1449 are brought to the attention of the Examiner.

It is also brought to the attention of the Examiner the following co-pending U.S. Patent Applications, all filed in the name of Joseph Phillip Bigus et al.:

Serial No.	Filing Date	<u>Title</u>	Docket No.
08/821,935	March 21, 1997	INTELLIGENT AGENT WITH NEGOTIATION CAPABILITY AND METHOD OF NEGOTIATION THEREWITH	IBM/02
08/822,119	March 21, 1997	APPARATUS AND METHOD FOR COMMUNICATING BETWEEN AN INTELLIGENT AGENT AND CLIENT COMPUTER PROCESS USING DISGUISED MESSAGES	IBM/03
08,826,107	March 21, 1997	APPARATUS AND METHOD FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING MULTIPLE INTELLIGENT AGENTS HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE	IBM/01

Each of the references was cited in the parent for the above-identified application, U.S. Serial No. 08/822,993, filed on March 21, 1997 by Joseph Phillip Bigus et al. and entitled "APPARATUS AND METHOD FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE". Accordingly, no copies of the references are provided.

No representation is made that any of the references are "prior art" within the meaning of 35 U.S.C. § 102 or § 103. Moreover, any explanations herein are not to be taken as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relative relevance of any portion of a reference is intended.

Consideration of the references and the remarks presented herein in the above-identified application is respectfully requested.

If there are any questions regarding this paper, or which might otherwise further this case onto allowance, please contact the undersigned at (513)241-2324. Moreover, if any other charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

28 AUG- 1998

Date

Respectfully submitted,

Scott A. Stinebruner

Reg. No. 38,323

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Cincinnati, Ohio 45202

(513)241-2324

A.S "Commercial Expert System Shells", http://www.ioe.ac.uk/hgm/expert3.html, (1997). A.T "Commercial Software Packages for Neural Network Simulation", ftp://ftp.sas.com/pub/neural/FAQ6.html, (1997).

**EXAMINER** 

**DATE CONSIDERED** 

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Sheet \_2 (B) \_ of \_ SERIAL NO. U.S. DEPARTMENT OF COMMERCE ATTY, DOCKET NO. **SUBSTITUTE FORM PTO-1449** 09/100,595 PATENT AND TRADEMARK OFFICE IBM/04B (RO996-052L) (MODIFIED) INFORMATION DISCLOSURE **APPLICANT** STATEMENT BY APPLICANT Joseph Phillip Bigus et al. FILING DATE GROUP (Use several sheets if necessary) (37 CFR 1.98(b)) June 19, 1998 2762 **U.S. PATENT DOCUMENTS** ISSUE **FILING DATE EXAMINER** PATENT NUMBER DATE CLASS **SUBCLASS** IF APPROPRIATE INITIAL **PATENTEE** 3 2 2 6 07/12/94 B.A Klein et al. 395 375 10/23/90 5 4 3 6 4 11/22/94 364 419.20 06/25/93 B.B Kawamoto et al. 7 5 B.C 5 3 6 6 3 11/22/94 Bauer et al. 395 200 08/29/91 3 8 8 9 12/06/94 B.D Johannes Klein 395 650 04/22/93 9 2 B.E 3 02/21/95 Mary R. Otto 379 265 04/30/93 8 5 3 9 0 2 B.F 1 03/14/95 Jeffrey H. Derby et al. 340 825.03 11/24/92 5 0 8 4 7 0 4 04/18/95 370 10/14/93 B.G Lewis V. Rothrock et al. 62 2 3 B.H 5 4 1 0 1 05/30/95 Curtis A. Smith 395 650 07/08/93 5 4 2 3 0 3 06/06/95 Fitzpatrick et al. 395 700 01/21/94 5 4 6 5 2 8 6 11/07/95 Clare et al. 379 34 05/24/94 5 4 6 9 2 B.K 6 11/21/95 Christian D. Saether 395 182.18 06/26/92 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS DOCUMENT **PUBLICATION COUNTRY OR** TRANSLATION NUMBER DATE PATENT OFFICE CLASS SUBCLASS (YES/NO) B.L EP0519109A1 12/23/92 Yes European B.M 03/30/94 Yes EP0589249A2 European 05/25/94 B.N EP0598534A1 Yes European 08/17/94 B.O EP0611210A1 European Yes B.P 1991 JP3195141 Japan Yes B.Q JP4157944 1992 Japan Yes OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) B.R A.D. Kwok et al., "A Development System for Intelligent Agent Manufacturing Software", Integrated Manufacturing Systems, 1994, Vol. 5 No. 4/5, pp.64-76. B.S Barbara Hayes-Roth, "An architecture for adaptive intelligent systems", Artificial Intelligence, January 1995, Volume 72, Numbers 1-2, pp. 329-365.

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March 1995, Volume 42, No. 3, pp. 265-288.

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**SUBSTITUTE FORM PTO-1449** U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. SERIAL NO. (MODIFIED) PATENT AND TRADEMARK OFFICE IBM/04B (RO996-052L) 09/100,595 INFORMATION DISCLOSURE **APPLICANT** STATEMENT BY APPLICANT Joseph Phillip Bigus et al. (Use several sheets if necessary) **FILING DATE GROUP** (37 CFR 1.98(b)) June 19, 1998 2762 **U.S. PATENT DOCUMENTS EXAMINER** ISSUE **FILING DATE PATENT NUMBER** CLASS INITIAL DATE **PATENTEE SUBCLASS** IF APPROPRIATE E.A E.B E.C E.D E.E E.F E.G E.H E.I E.J E.K FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS **DOCUMENT PUBLICATION COUNTRY OR** TRANSLATION NUMBER **SUBCLASS** DATE PATENT OFFICE CLASS (YES/NO) E.L E.M E.N E.O E.P E.Q OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication) E.R Peter Gibbons et al., "Intelligent Agents in Multi-Media Systems", Sharp Technical Journal, December 1994, Volume 60, pp. 11-14. E.S Cristano Castelfranchi, "Guarantees for Autonomy in Cognitive Agent Architecture", Proceedings of ECAI-94 Workshop on Agent Theories, Architectures, and Languages, Amsterdam, The Netherlands, August 8-9, 1994, pp. 56-70. E.T Devindra Weerasooriya et al., "Design of a Concurrent Agent-Oriented Language", Proceedings of ECAI-94 Workshop on Agent Theories, Architectures, and Languages, Amsterdam, The Netherlands, August 8-9, 1994, pp. 386-401. **EXAMINER DATE CONSIDERED** EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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